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 <213> Homo sapiens

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 gagactggtg ctgtcatcgc tgcctggtga ctgacttgct gtgtggccct caggtgtaac 120
 ttaccctctc tgggcctcat ttgtctaate ataataatta acgctgatac catgatataa 180
 atctgtacag catttcactg cttgattccc taactgccct gtgagataag cgttaaggct 240
 cagagacagt ggcattgccc gtgttgacac gtaagtgtgt ggtaaagccg agattcaaac 300
 tcagaccttc tggccctctg cctaggagag catgcccagt tgtctagcag attctctttt 360
 gcctgagtgg cccagatgac atctctttta gagctagaaa gaaggagaaa tgagacaggg 420
 tctttgggct ggagcctcct gggactaaca tggcactggt cggtttgcca ggcccagaca 480
 tgttctgcct tttccatggg aagagatact ccccgggcga gagctggcac ccctacttgg 540
 agccacaagg cctgatgtac tgcctgcgct gtacctgctc agagggcgcc catgtgagtt 600
 gttaccgctt ccaactgtccg cctgtccact gccccagcc tgtgacggag ccacagcaat 660
 gctgtcccaa gtgtgtggaa cctcacactc cctctggact ccgggccccca ccaaagtcct 720
 gccagcacia cgggaccatg taccaacacg gagagatctt cagtgcccat gagctgttcc 780
 cctcccgctt gcccaaccag tgtgtcctct gcagctgcac agagggccag atctactgcg 840
 gcctcacaac ctgccccgaa ccaggctgcc cagcaccctt cccgctgcca gactcctgct 900
 gccaaagcctg caaagatgag gcaagtgage aatcggatga agaggacagt gtgcagtcgc 960
 tccatgggggt gagacatcct caggatccat gttccagtga tgctgggaga aagagaggcc 1020
 cgggcacccc agccccact ggctcagcg cccctctgag cttcatccct cgccacttca 1080
 gacccaaggg agcaggcagc acaactgtca agatcgtcct gaaggagaaa cataagaaag 1140
 aggacaaagc agaccctggc cacagtgaga tcagttctac caggtgtccc aaggcaccgg 1200
 gccgggtcct cgtccacaca tcggatatccc caagcccaga caacctgcgt cgctttgccc 1260
 tggaaacacga ggcctcggac ttggtggaga tctacctctg gaagctggta aaagatgagg 1320
 aaactgaggg tcagagaggt gaagtacctg gcccaggcc acacagccag aatcttccac 1380
 ttgactcaga tcaagaaagt caggaagcaa gacttccaga aagaggcaca gcaactccga 1440
 ctgctcgtctg gccccacga aggtcactgg aacgtcttcc tagcccagac cctggagctg 1500
 aaggtcacgg ccagtcacga caaagtgacc aagacataac aaagacctaa cagttgcaga 1560
 tatgagctgt ataattgttg ttattatata ttaataaata agaagttgca taaccatcaa 1620
 aa 1622

<210> 10
 <211> 1567
 <212> DNA
 <213> Homo sapiens

<400> 10
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 ttaccctctc tgggcctcat ttgtctaate ataataatta acgctgatac catgatataa 180
 atctgtacag catttcactg cttgattccc taactgccct gtgagataag cgttaaggct 240
 cagagacagt ggcattgccc gtgttgacac gtaagtgtgt ggtaaagccg agattcaaac 300
 tcagaccttc tggccctctg cctaggagag catgcccagt tgtctagcag attctctttt 360
 gcctgagtgg cccagatgac atctctttta gagctagaaa gaaggagaaa tgagacaggg 420
 tctttgggct ggagcctcct gggactaaca tggcactggt cggtttgcca ggcccagaca 480
 tgttctgcct tttccatggg aagagatact ccccgggcga gagctggcac ccctacttgg 540
 agccacaagg cctgatgtac tgcctgcgct gtacctgctc agagggcgcc catgtgagtt 600
 gttaccgctt ccaactgtccg cctgtccact gccccagcc tgtgacggag ccacagcaat 660
 gctgtcccaa gtgtgtggaa cctcacactc cctctggact ccgggccccca ccaaagtcct 720
 gccagcacia cgggaccatg taccaacacg gagagatctt cagtgcccat gagctgttcc 780
 cctcccgctt gcccaaccag tgtgtcctct gcagctgcac agagggccag atctactgcg 840
 gcctcacaac ctgccccgaa ccaggctgcc cagcaccctt cccgctgcca gactcctgct 900

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gccaagcctg caaagatgag gcaagtgagc aatcggatga agaggacagt gtgcagtcgc 960
tccatggggt gagacatcct caggatccat gtccagtgga tgctgggaga aagagaggcc 1020
cgggcacccc agccccact ggcctcagcg cccctctgag ctccatccct cgccacttca 1080
gacccaaggg agcaggcagc acaactgtca agatcgtcct gaaggagaaa cataagaaag 1140
aggacaaagc agaccctggc cacagtgaga tcagttctac caggtgtccc aaggcaccgg 1200
gccgggtcct cgtccacaca tcgggtatccc caagcccaga caacctgcgt cgctttgccc 1260
tggaacacga ggctcggac ttggtggaga tctacctctg gaagctggta aaaggaatct 1320
tccacttgac tcagatcaag aaagtcagga agcaagactt ccagaaagag gcacagcact 1380
tccgactgct cgtggcccc cacgaaggtc actggaacgt cttcctagcc cagaccctgg 1440
agctgaaggt cagggccagt ccagacaaag tgaccaagac ataacaaaga cctaacagtt 1500
gcagatatga gctgtataat tgttggtatt atatattaat aaataagaag ttgcataacc 1560
atcaaaa 1567

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<210> 11
 <211> 1202
 <212> DNA
 <213> Mouse

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<400> 11
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aagccctgga ggctggcttg ccaaatecct gtccagtgnt ttattgatta gtctgagaat 120
atcttagacc tcaccacaaa ggttctgtgt ggagcctgtg ctctctgtct gtctgtctgt 180
ctgtctgtct gtctgtctgt ctgcctgcct ctctctgtct gtctccgtct gtctctgtct 240
ctctgtctgt ctctgtctgt ctctttctct ctgtctctct ctgtgtctct gtctctgtct 300
ctgtctctct ctctctctca gaagtcctct agccttctct agcaggcgtc tcatgcagcc 360
tggttggtgt tcccagctgt ggcctatccc acagacagct ccacatcctg cttgctgttc 420
gcagagacat tcccaggatc catgctcgga gaggagaggc cccagcacgc cagcccccac 480
cagcctcagc tcccctctgg gcttcatccn tcgccacttc cagtcagtag gaatgggcag 540
cacaaccatc aagattatct tgaaggagaa acataaaaaa gcttgccacac acaatgggaa 600
gacatactcc catggggagg tgtggcaccc cactgtgtct tcccttggcc ccatgccctg 660
cactctgtgc acatgtattg atggctacca ggactgccac cgtgtgacct gcccaccca 720
atatecctgc agtcaaccca agaaagtggc tgggaagtgc tgcaagatct gccagagga 780
cgaggcggaa gatgaccaca gtgaggtcat ttccaccggg tgtcccaagg taccaggcca 840
gttccagggtg tacacgttgg catctccaag cccagacagc ctacaccgct ttgtcctgga 900
gcatagaagc tctgaccagg tagagatgta catttggaag ctggtgaaag gaatttacca 960
cttggttcag atcaagagag tcaggaagca agatttccag aaagaggttc agaacttccg 1020
gctgtctacc ggcacccatg aaggttactg gaccgttttc ctagcccaga ttccagagct 1080
gaaagttaca gccagcccag acaaagtgc caagacatta tagcaaggac ctaaagagtt 1140
gcagatacga gttttattgg ttttggtatt atatattaat aaagaagtcg cattaccctt 1200
tc 1202

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<210> 12
 <211> 398
 <212> PRT
 <213> Homo sapiens

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<400> 12
Arg Glu Pro Gln Gly Leu Met Tyr Cys Leu Arg Cys Thr Cys Ser Glu
 1             5             10             15

Gly Ala His Val Ser Cys Tyr Arg Leu His Cys Pro Pro Val His Cys
          20             25             30

Pro Gln Pro Val Thr Glu Pro Gln Gln Cys Cys Pro Lys Cys Val Glu
          35             40             45

Pro His Thr Pro Ser Gly Leu Arg Ala Pro Pro Lys Ser Cys Gln His
          50             55             60

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Asn Gly Thr Met Tyr Gln His Gly Glu Ile Phe Ser Ala His Glu Leu
 65 70 75 80
 Phe Pro Ser Arg Leu Pro Asn Gln Cys Val Leu Cys Ser Cys Thr Glu
 85 90 95
 Gly Gln Ile Tyr Cys Gly Leu Thr Thr Cys Pro Glu Pro Gly Cys Pro
 100 105 110
 Ala Pro Leu Pro Leu Pro Asp Ser Cys Cys Gln Ala Cys Lys Asp Glu
 115 120 125
 Ala Ser Glu Gln Ser Asp Glu Glu Asp Ser Val Gln Ser Leu His Gly
 130 135 140
 Val Arg His Pro Gln Asp Pro Cys Ser Ser Asp Ala Gly Arg Lys Arg
 145 150 155 160
 Gly Pro Gly Thr Pro Ala Pro Thr Gly Leu Ser Ala Pro Leu Ser Phe
 165 170 175
 Ile Pro Arg His Phe Arg Pro Lys Gly Ala Gly Ser Thr Thr Val Lys
 180 185 190
 Ile Val Leu Lys Glu Lys His Xaa Lys Ala Cys Val His Gly Gly Lys
 195 200 205
 Thr Tyr Ser His Gly Glu Val Trp His Pro Ala Phe Arg Ala Phe Gly
 210 215 220
 Pro Cys Pro Cys Ile Leu Cys Thr Cys Glu Asp Gly Arg Gln Asp Cys
 225 230 235 240
 Gln Arg Val Thr Cys Pro Thr Lys Tyr Pro Cys Arg His Pro Glu Lys
 245 250 255
 Val Ala Gly Lys Cys Cys Lys Ile Cys Pro Glu Asp Lys Ala Asp Pro
 260 265 270
 Gly His Ser Glu Ile Ser Ser Thr Arg Cys Pro Lys Ala Pro Gly Arg
 275 280 285
 Val Leu Val His Thr Ser Val Ser Pro Ser Pro Asp Asn Leu Arg Arg
 290 295 300
 Phe Ala Leu Glu His Glu Ala Ser Asp Leu Val Glu Ile Tyr Leu Trp
 305 310 315 320
 Lys Leu Val Lys Asp Glu Glu Thr Glu Ala Gln Arg Gly Glu Val Pro
 325 330 335
 Gly Pro Arg Pro His Ser Gln Asn Phe His Leu Thr Gln Ile Lys Lys
 340 345 350
 Val Arg Lys Gln Asp Phe Gln Lys Glu Ala Gln His Phe Arg Leu Leu
 355 360 365
 Ala Gly Pro His Glu Gly His Trp Asn Val Phe Leu Ala Gln Thr Leu
 370 375 380
 Glu Leu Lys Val Thr Ala Ser Pro Asp Lys Val Thr Lys Thr

385

390

395

<210> 13
 <211> 539
 <212> PRT
 <213> Homo sapiens

<400> 13

Ser	Pro	Leu	Pro	Ser	Ala	Gly	Pro	Ser	Phe	Val	Ser	Pro	Ser	Leu	Pro
1				5					10					15	
Pro	Phe	Pro	Ala	Phe	Ser	Phe	His	Leu	Ser	Leu	Leu	Pro	Thr	Leu	Asp
			20					25					30		
Leu	Pro	Ser	Cys	Pro	Pro	Phe	Leu	Pro	Thr	Ala	Ala	Ser	Trp	Pro	Phe
		35					40					45			
Ser	Asp	Pro	Ala	Leu	Ala	Ala	Asp	Leu	Leu	Gly	Ser	Cys	Gly	Leu	Ile
	50					55					60				
Cys	Gly	Pro	Cys	Xaa	Ser	Val	Ser	Phe	Ser	Ser	Pro	Val	Leu	Pro	Thr
65					70					75					80
Pro	Leu	Pro	Asp	Gln	Arg	Pro	Asp	Pro	Gly	Glu	Arg	Met	Val	Pro	Glu
				85					90					95	
Val	Arg	Val	Leu	Ser	Ser	Leu	Leu	Gly	Leu	Ala	Leu	Leu	Trp	Phe	Pro
			100					105					110		
Leu	Asp	Ser	His	Ala	Arg	Ala	Arg	Pro	Asp	Met	Phe	Cys	Leu	Phe	His
		115					120					125			
Gly	Lys	Arg	Tyr	Ser	Pro	Gly	Glu	Ser	Trp	His	Pro	Tyr	Leu	Glu	Pro
	130					135					140				
Gln	Gly	Leu	Met	Tyr	Cys	Leu	Arg	Cys	Thr	Cys	Ser	Glu	Gly	Ala	His
145					150					155					160
Val	Ser	Cys	Tyr	Arg	Leu	His	Cys	Pro	Pro	Val	His	Cys	Pro	Gln	Pro
				165					170					175	
Val	Thr	Glu	Pro	Gln	Gln	Cys	Cys	Pro	Lys	Cys	Val	Glu	Pro	His	Thr
			180					185					190		
Pro	Ser	Gly	Leu	Arg	Ala	Pro	Pro	Lys	Ser	Cys	Gln	His	Asn	Gly	Thr
		195					200					205			
Met	Tyr	Gln	His	Gly	Glu	Ile	Phe	Ser	Ala	His	Glu	Leu	Phe	Pro	Ser
	210					215					220				
Arg	Leu	Pro	Asn	Gln	Cys	Val	Leu	Cys	Ser	Cys	Thr	Glu	Gly	Gln	Ile
225					230					235					240
Tyr	Cys	Gly	Leu	Thr	Thr	Cys	Pro	Glu	Pro	Gly	Cys	Pro	Ala	Pro	Leu
				245					250					255	
Pro	Leu	Pro	Asp	Ser	Cys	Cys	Gln	Ala	Cys	Lys	Asp	Glu	Ala	Ser	Glu
			260					265					270		
Gln	Ser	Asp	Glu	Glu	Asp	Ser	Val	Gln	Ser	Leu	His	Gly	Val	Arg	His

275 280 285
 Pro Gln Asp Pro Cys Ser Ser Asp Ala Gly Arg Lys Arg Gly Pro Gly
 290 295 300
 Thr Pro Ala Pro Thr Gly Leu Ser Ala Pro Leu Ser Phe Ile Pro Arg
 305 310 315 320
 His Phe Arg Pro Lys Gly Ala Gly Ser Thr Thr Val Lys Ile Val Leu
 325 330 335
 Lys Glu Lys His Xaa Lys Ala Cys Val His Gly Gly Lys Thr Tyr Ser
 340 345 350
 His Gly Glu Val Trp His Pro Ala Phe Arg Ala Phe Gly Pro Cys Pro
 355 360 365
 Cys Ile Leu Cys Thr Cys Glu Asp Gly Arg Gln Asp Cys Gln Arg Val
 370 375 380
 Thr Cys Pro Thr Lys Tyr Pro Cys Arg His Pro Glu Lys Val Ala Gly
 385 390 395 400
 Lys Cys Cys Lys Ile Cys Pro Glu Asp Lys Ala Asp Pro Gly His Ser
 405 410 415
 Glu Ile Ser Ser Thr Arg Cys Pro Lys Ala Pro Gly Arg Val Leu Val
 420 425 430
 His Thr Ser Val Ser Pro Ser Pro Asp Asn Leu Arg Arg Phe Ala Leu
 435 440 445
 Glu His Glu Ala Ser Asp Leu Val Glu Ile Tyr Leu Trp Lys Leu Val
 450 455 460
 Lys Asp Glu Glu Thr Glu Ala Gln Arg Gly Glu Val Pro Gly Pro Arg
 465 470 475 480
 Pro His Ser Gln Asn Phe His Leu Thr Gln Ile Lys Lys Val Arg Lys
 485 490 495
 Gln Asp Phe Gln Lys Glu Ala Gln His Phe Arg Leu Leu Ala Gly Pro
 500 505 510
 His Glu Gly His Trp Asn Val Phe Leu Ala Gln Thr Leu Glu Leu Lys
 515 520 525
 Val Thr Ala Ser Pro Asp Lys Val Thr Lys Thr
 530 535

<210> 14
 <211> 388
 <212> PRT
 <213> Homo sapiens

<400> 14
 Ile Ser Ser Trp Gly Gln Met Gln Asn His Gln Lys Ser Gly Leu Val
 1 5 10 15

Asn Phe Ser Lys Asp Ser His Glu Thr Ser Phe Ser Ser Ser Ser Cys

20	25	30
Pro Ser Pro Thr Val Glu Pro His Thr Pro Ser Gly Leu Arg Ala Pro		
35	40	45
Pro Lys Ser Cys Gln His Asn Gly Thr Met Tyr Gln His Gly Glu Ile		
50	55	60
Phe Ser Ala His Glu Leu Phe Pro Ser Arg Leu Pro Asn Gln Cys Val		
65	70	75
Leu Cys Ser Cys Thr Glu Gly Gln Ile Tyr Cys Gly Leu Thr Thr Cys		
85	90	95
Pro Glu Pro Gly Cys Pro Ala Pro Leu Pro Leu Pro Asp Ser Cys Cys		
100	105	110
Gln Ala Cys Lys Asp Glu Ala Ser Glu Gln Ser Asp Glu Glu Asp Ser		
115	120	125
Val Gln Ser Leu His Gly Val Arg His Pro Gln Asp Pro Cys Ser Ser		
130	135	140
Asp Ala Gly Arg Lys Arg Gly Pro Gly Thr Pro Ala Pro Thr Gly Leu		
145	150	155
Ser Ala Pro Leu Ser Phe Ile Pro Arg His Phe Arg Pro Lys Gly Ala		
165	170	175
Gly Ser Thr Thr Val Lys Ile Val Leu Lys Glu Lys His Xaa Lys Ala		
180	185	190
Cys Val His Gly Gly Lys Thr Tyr Ser His Gly Glu Val Trp His Pro		
195	200	205
Ala Phe Arg Ala Phe Gly Pro Cys Pro Cys Ile Leu Cys Thr Cys Glu		
210	215	220
Asp Gly Arg Gln Asp Cys Gln Arg Val Thr Cys Pro Thr Lys Tyr Pro		
225	230	235
Cys Arg His Pro Glu Lys Val Ala Gly Lys Cys Cys Lys Ile Cys Pro		
245	250	255
Glu Asp Lys Ala Asp Pro Gly His Ser Glu Ile Ser Ser Thr Arg Cys		
260	265	270
Pro Lys Ala Pro Gly Arg Val Leu Val His Thr Ser Val Ser Pro Ser		
275	280	285
Pro Asp Asn Leu Arg Arg Phe Ala Leu Glu His Glu Ala Ser Asp Leu		
290	295	300
Val Glu Ile Tyr Leu Trp Lys Leu Val Lys Asp Glu Glu Thr Glu Ala		
305	310	315
Gln Arg Gly Glu Val Pro Gly Pro Arg Pro His Ser Gln Asn Phe His		
325	330	335
Leu Thr Gln Ile Lys Lys Val Arg Lys Gln Asp Phe Gln Lys Glu Ala		
340	345	350

Gln His Phe Arg Leu Leu Ala Gly Pro His Glu Gly His Trp Asn Val
355 360 365

Phe Leu Ala Gln Thr Leu Glu Leu Lys Val Thr Ala Ser Pro Asp Lys
370 375 380

Val Thr Lys Thr
385

<210> 15

<211> 439

<212> PRT

<213> Homo sapiens

<400> 15

Asp Arg Val Phe Gly Leu Glu Pro Pro Gly Thr Asn Met Ala Leu Val
1 5 10 15

Gly Leu Pro Gly Pro Asp Met Phe Cys Leu Phe His Gly Lys Arg Tyr
20 25 30

Ser Pro Gly Glu Ser Trp His Pro Tyr Leu Glu Pro Gln Gly Leu Met
35 40 45

Tyr Cys Leu Arg Cys Thr Cys Ser Glu Gly Ala His Val Ser Cys Tyr
50 55 60

Arg Leu His Cys Pro Pro Val His Cys Pro Gln Pro Val Thr Glu Pro
65 70 75 80

Gln Gln Cys Cys Pro Lys Cys Val Glu Pro His Thr Pro Ser Gly Leu
85 90 95

Arg Ala Pro Pro Lys Ser Cys Gln His Asn Gly Thr Met Tyr Gln His
100 105 110

Gly Glu Ile Phe Ser Ala His Glu Leu Phe Pro Ser Arg Leu Pro Asn
115 120 125

Gln Cys Val Leu Cys Ser Cys Thr Glu Gly Gln Ile Tyr Cys Gly Leu
130 135 140

Thr Thr Cys Pro Glu Pro Gly Cys Pro Ala Pro Leu Pro Leu Pro Asp
145 150 155 160

Ser Cys Cys Gln Ala Cys Lys Asp Glu Ala Ser Glu Gln Ser Asp Glu
165 170 175

Glu Asp Ser Val Gln Ser Leu His Gly Val Arg His Pro Gln Asp Pro
180 185 190

Cys Ser Ser Asp Ala Gly Arg Lys Arg Gly Pro Gly Thr Pro Ala Pro
195 200 205

Thr Gly Leu Ser Ala Pro Leu Ser Phe Ile Pro Arg His Phe Arg Pro
210 215 220

Lys Gly Ala Gly Ser Thr Thr Val Lys Ile Val Leu Lys Glu Lys His
225 230 235 240

Xaa Lys Ala Cys Val His Gly Gly Lys Thr Tyr Ser His Gly Glu Val
 245 250 255
 Trp His Pro Ala Phe Arg Ala Phe Gly Pro Cys Pro Cys Ile Leu Cys
 260 265 270
 Thr Cys Glu Asp Gly Arg Gln Asp Cys Gln Arg Val Thr Cys Pro Thr
 275 280 285
 Lys Tyr Pro Cys Arg His Pro Glu Lys Val Ala Gly Lys Cys Cys Lys
 290 295 300
 Ile Cys Pro Glu Asp Lys Ala Asp Pro Gly His Ser Glu Ile Ser Ser
 305 310 315 320
 Thr Arg Cys Pro Lys Ala Pro Gly Arg Val Leu Val His Thr Ser Val
 325 330 335
 Ser Pro Ser Pro Asp Asn Leu Arg Arg Phe Ala Leu Glu His Glu Ala
 340 345 350
 Ser Asp Leu Val Glu Ile Tyr Leu Trp Lys Leu Val Lys Asp Glu Glu
 355 360 365
 Thr Glu Ala Gln Arg Gly Glu Val Pro Gly Pro Arg Pro His Ser Gln
 370 375 380
 Asn Phe His Leu Thr Gln Ile Lys Lys Val Arg Lys Gln Asp Phe Gln
 385 390 395 400
 Lys Glu Ala Gln His Phe Arg Leu Leu Ala Gly Pro His Glu Gly His
 405 410 415
 Trp Asn Val Phe Leu Ala Gln Thr Leu Glu Leu Lys Val Thr Ala Ser
 420 425 430
 Pro Asp Lys Val Thr Lys Thr
 435

<210> 16
 <211> 549
 <212> PRT
 <213> Homo sapiens

<400> 16
 Thr Phe Pro Leu Ser Leu Ile Ala Ser Pro Phe Cys Trp Thr Phe Leu
 1 5 10 15
 Arg Leu Ser Ile Ser Pro Ser Phe Pro Arg Val Leu Phe Pro Pro Phe
 20 25 30
 Ser Ser Ser His Leu Arg Pro Pro Phe Leu Pro Ser Phe Pro Ala His
 35 40 45
 Arg Cys Phe Leu Ala Leu Leu Arg Pro Arg Ser Ser Ser Arg Pro Pro
 50 55 60
 Gly Val Cys Gly Leu Ile Cys Gly Pro Cys Ala Ser Val Ser Phe Ser
 65 70 75 80

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Ser Pro Phe Leu Pro Thr Pro Leu Pro Asp Gln Arg Pro Asp Pro Gly
      85                      90                      95

Glu Arg Met Val Pro Glu Val Arg Val Leu Ser Ser Leu Leu Gly Leu
      100                      105                      110

Ala Leu Leu Trp Phe Pro Leu Asp Ser His Ala Arg Ala Arg Pro Asp
      115                      120                      125

Met Phe Cys Leu Phe His Gly Lys Arg Tyr Ser Pro Gly Glu Ser Trp
      130                      135                      140

His Pro Tyr Leu Glu Pro Gln Gly Leu Met Tyr Cys Leu Arg Cys Thr
      145                      150                      155                      160

Cys Ser Glu Gly Ala His Val Ser Cys Tyr Arg Leu His Cys Pro Pro
      165                      170                      175

Val His Cys Pro Gln Pro Val Thr Glu Pro Gln Gln Cys Cys Pro Lys
      180                      185                      190

Cys Val Glu Pro His Thr Pro Ser Gly Leu Arg Ala Pro Pro Lys Ser
      195                      200                      205

Cys Gln His Asn Gly Thr Met Tyr Gln His Gly Glu Ile Phe Ser Ala
      210                      215                      220

His Glu Leu Phe Pro Ser Arg Leu Pro Asn Gln Cys Val Leu Cys Ser
      225                      230                      235                      240

Cys Thr Glu Gly Gln Ile Tyr Cys Gly Leu Thr Thr Cys Pro Glu Pro
      245                      250                      255

Gly Cys Pro Ala Pro Leu Pro Leu Pro Asp Ser Cys Cys Gln Ala Cys
      260                      265                      270

Lys Asp Glu Ala Ser Glu Gln Ser Asp Glu Glu Asp Arg Val Gln Ser
      275                      280                      285

Leu His Gly Val Arg His Pro Gln Asp Pro Cys Ser Ser Asp Ala Gly
      290                      295                      300

Arg Lys Arg Gly Pro Gly Thr Pro Ala Pro Thr Gly Leu Ser Ala Pro
      305                      310                      315                      320

Leu Ser Phe Ile Pro Arg His Phe Ile Pro Lys Gly Ala Gly Ser Thr
      325                      330                      335

Thr Val Lys Ile Val Leu Lys Glu Lys His Lys Lys Ala Cys Val His
      340                      345                      350

Gly Gly Lys Thr Tyr Ser His Gly Glu Val Trp His Pro Ala Phe Arg
      355                      360                      365

Ala Phe Gly Pro Leu Pro Cys Ile Leu Cys Thr Cys Glu Asp Gly Arg
      370                      375                      380

Gln Asp Cys Gln Arg Val Thr Cys Pro Thr Glu Tyr Pro Cys Arg His
      385                      390                      395                      400

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Pro Glu Lys Val Ala Gly Lys Cys Cys Lys Ile Cys Pro Glu Asp Lys
 405 410 415

Ala Asp Pro Gly His Ser Glu Ile Ser Ser Thr Arg Cys Pro Lys Ala
 420 425 430

Pro Gly Arg Val Leu Val His Thr Ser Val Ser Pro Ser Pro Asp Asn
 435 440 445

Leu Arg Arg Phe Ala Leu Glu His Glu Ala Ser Asp Leu Val Glu Ile
 450 455 460

Tyr Leu Trp Lys Leu Val Lys Asp Glu Glu Thr Glu Ala Gln Arg Gly
 465 470 475 480

Glu Val Pro Gly Pro Arg Pro His Ser Gln Asn Leu Pro Leu Asp Ser
 485 490 495

Asp Gln Glu Ser Gln Glu Ala Arg Leu Pro Glu Arg Gly Thr Ala Leu
 500 505 510

Pro Thr Ala Arg Trp Pro Pro Arg Arg Ser Leu Glu Arg Leu Pro Ser
 515 520 525

Pro Asp Pro Gly Ala Glu Gly His Gly Gln Ser Arg Gln Ser Asp Gln
 530 535 540

Asp Ile Thr Lys Thr
 545

<210> 17
 <211> 549
 <212> PRT
 <213> Homo sapiens

<400> 17
 Thr Phe Pro Leu Ser Leu Ile Ala Ser Pro Phe Cys Trp Thr Phe Leu
 1 5 10 15

Arg Leu Ser Ile Ser Pro Ser Phe Pro Arg Val Leu Phe Pro Pro Phe
 20 25 30

Ser Ser Ser His Leu Arg Pro Pro Phe Leu Pro Ser Phe Pro Ala His
 35 40 45

Arg Cys Phe Leu Ala Leu Leu Arg Pro Arg Ser Ser Ser Arg Pro Pro
 50 55 60

Gly Val Cys Gly Leu Ile Cys Gly Pro Cys Ala Ser Val Ser Phe Ser
 65 70 75 80

Ser Pro Phe Leu Pro Thr Pro Leu Pro Asp Gln Arg Pro Asp Pro Gly
 85 90 95

Glu Arg Met Val Pro Glu Val Arg Val Leu Ser Ser Leu Leu Gly Leu
 100 105 110

Ala Leu Leu Trp Phe Pro Leu Asp Ser His Ala Arg Ala Arg Pro Asp
 115 120 125

Met Phe Cys Leu Phe His Gly Lys Arg Tyr Ser Pro Gly Glu Ser Trp
 130 135 140
 His Pro Tyr Leu Glu Pro Gln Gly Leu Met Tyr Cys Leu Arg Cys Thr
 145 150 155 160
 Cys Ser Glu Gly Ala His Val Ser Cys Tyr Arg Leu His Cys Pro Pro
 165 170 175
 Val His Cys Pro Gln Pro Val Thr Glu Pro Gln Gln Cys Cys Pro Lys
 180 185 190
 Cys Val Glu Pro His Thr Pro Ser Gly Leu Arg Ala Pro Pro Lys Ser
 195 200 205
 Cys Gln His Asn Gly Thr Met Tyr Gln His Gly Glu Ile Phe Ser Ala
 210 215 220
 His Glu Leu Phe Pro Ser Arg Leu Pro Asn Gln Cys Val Leu Cys Ser
 225 230 235 240
 Cys Thr Glu Gly Gln Ile Tyr Cys Gly Leu Thr Thr Cys Pro Glu Pro
 245 250 255
 Gly Cys Pro Ala Pro Leu Pro Leu Pro Asp Ser Cys Cys Gln Ala Cys
 260 265 270
 Lys Gly Glu Ala Ser Glu Gln Ser Asp Glu Glu Asp Ser Val Gln Ser
 275 280 285
 Leu His Gly Val Arg His Pro Gln Asp Pro Cys Ser Ser Asp Ala Gly
 290 295 300
 Arg Lys Arg Gly Pro Gly Thr Pro Ala Pro Thr Gly Leu Ser Ala Pro
 305 310 315 320
 Leu Ser Phe Ile Pro Arg His Phe Arg Pro Lys Gly Ala Gly Ser Thr
 325 330 335
 Thr Val Lys Ile Val Leu Lys Glu Lys His Lys Lys Ala Cys Val His
 340 345 350
 Gly Gly Lys Thr Tyr Ser His Gly Glu Val Trp His Pro Ala Phe Arg
 355 360 365
 Ala Phe Gly Pro Leu Pro Cys Ile Leu Cys Thr Cys Glu Asp Gly Arg
 370 375 380
 Gln Asp Cys Gln Arg Val Thr Cys Pro Thr Glu Tyr Pro Cys Arg His
 385 390 395 400
 Pro Glu Lys Val Ala Gly Lys Cys Cys Lys Ile Cys Pro Glu Asp Lys
 405 410 415
 Ala Asp Pro Gly His Ser Glu Ile Ser Ser Thr Arg Cys Pro Lys Ala
 420 425 430
 Pro Gly Arg Val Leu Val His Thr Ser Val Ser Pro Ser Pro Asp Asn
 435 440 445
 Leu Arg Arg Phe Ala Leu Glu His Glu Ala Ser Asp Leu Val Glu Ile

450 455 460
 Tyr Leu Trp Lys Leu Val Lys Asp Glu Glu Thr Glu Ala Gln Arg Gly
 465 470 475 480
 Glu Val Pro Gly Pro Arg Pro His Ser Gln Asn Leu Pro Leu Asp Ser
 485 490 495
 Asp Gln Glu Ser Gln Glu Ala Arg Leu Pro Glu Arg Gly Thr Ala Leu
 500 505 510
 Pro Thr Ala Arg Trp Pro Pro Arg Arg Ser Leu Glu Arg Leu Pro Ser
 515 520 525
 Pro Asp Pro Gly Ala Glu Gly His Gly Gln Ser Arg Gln Ser Asp Gln
 530 535 540
 Asp Ile Thr Lys Thr
 545

<210> 18
 <211> 392
 <212> PRT
 <213> Homo sapiens

<400> 18
 Ile Ser Ser Trp Gly Gln Met Gln Asn His Gln Lys Ser Gly Leu Val
 1 5 10 15
 Asn Phe Ser Lys Asp Ser His Glu Thr Ser Phe Ser Ser Ser Ser Cys
 20 25 30
 Pro Ser Pro Thr Ala Glu Pro His Thr Pro Ser Gly Leu Arg Ala Pro
 35 40 45
 Pro Lys Ser Cys Gln His Asn Gly Thr Met Tyr Gln His Gly Glu Ile
 50 55 60
 Phe Ser Ala His Glu Leu Phe Pro Ser Arg Leu Pro Asn Gln Cys Val
 65 70 75 80
 Leu Cys Ser Cys Thr Glu Gly Gln Ile Tyr Cys Gly Leu Thr Thr Cys
 85 90 95
 Pro Glu Pro Gly Cys Pro Ala Pro Leu Pro Leu Pro Asp Ser Cys Cys
 100 105 110
 Gln Ala Cys Lys Asp Glu Ala Ser Glu Gln Ser Asp Glu Glu Asp Ser
 115 120 125
 Val Gln Ser Leu His Gly Val Arg His Pro Gln Asp Pro Cys Ser Ser
 130 135 140
 Asp Ala Gly Arg Lys Arg Gly Pro Gly Thr Pro Ala Pro Thr Gly Leu
 145 150 155 160
 Ser Ala Pro Leu Ser Phe Ile Pro Arg His Phe Arg Pro Lys Gly Ala
 165 170 175
 Gly Ser Thr Thr Val Lys Ile Val Leu Lys Glu Lys His Lys Lys Ala

180 185 190
 Cys Val His Gly Gly Lys Thr Tyr Ser His Gly Glu Val Trp His Pro
 195 200 205
 Ala Phe Arg Ala Phe Gly Pro Leu Pro Cys Ile Leu Cys Thr Cys Glu
 210 215 220
 Asp Gly Arg Gln Asp Cys Gln Arg Val Thr Cys Pro Thr Glu Tyr Pro
 225 230 235 240
 Cys Arg His Pro Glu Lys Val Ala Gly Lys Cys Cys Lys Ile Cys Pro
 245 250 255
 Glu Asp Lys Ala Asp Pro Gly His Ser Glu Ile Ser Ser Thr Arg Cys
 260 265 270
 Pro Lys Ala Pro Gly Arg Val Leu Val His Thr Ser Val Ser Pro Ser
 275 280 285
 Pro Asp Asn Leu Arg Arg Phe Ala Leu Glu His Glu Ala Ser Asp Leu
 290 295 300
 Val Glu Ile Tyr Leu Trp Lys Leu Val Lys Asp Glu Glu Thr Glu Ala
 305 310 315 320
 Gln Arg Gly Glu Val Pro Gly Pro Arg Pro His Ser Gln Asn Leu Pro
 325 330 335
 Leu Asp Ser Asp Gln Glu Ser Gln Glu Ala Arg Leu Pro Glu Arg Gly
 340 345 350
 Thr Ala Leu Pro Thr Ala Arg Trp Pro Pro Arg Arg Ser Leu Glu Arg
 355 360 365
 Leu Pro Ser Pro Asp Pro Gly Ala Glu Gly His Gly Gln Ser Arg Gln
 370 375 380
 Ser Asp Gln Asp Ile Thr Lys Thr
 385 390

<210> 19
 <211> 443
 <212> PRT
 <213> Homo sapiens

<400> 19
 Asp Arg Val Phe Gly Leu Glu Pro Pro Gly Thr Asn Met Ala Leu Val
 1 5 10 15
 Gly Leu Pro Gly Pro Asp Met Phe Cys Leu Phe His Gly Lys Arg Tyr
 20 25 30
 Ser Pro Gly Glu Ser Trp His Pro Tyr Leu Glu Pro Gln Gly Leu Met
 35 40 45
 Tyr Cys Leu Arg Cys Thr Cys Ser Glu Gly Ala His Val Ser Cys Tyr
 50 55 60
 Arg Leu His Cys Pro Pro Val His Cys Pro Gln Pro Val Thr Glu Pro

65		70		75		80
Gln Gln Cys Cys Pro Lys Cys Val Glu Pro His Thr Pro Ser Gly Leu	85		90		95	
Arg Ala Pro Pro Lys Ser Cys Gln His Asn Gly Thr Met Tyr Gln His	100		105		110	
Gly Glu Ile Phe Ser Ala His Glu Leu Phe Pro Ser Arg Leu Pro Asn	115		120		125	
Gln Cys Val Leu Cys Ser Cys Thr Glu Gly Gln Ile Tyr Cys Gly Leu	130		135		140	
Thr Thr Cys Pro Glu Pro Gly Cys Pro Ala Pro Leu Pro Leu Pro Asp	145		150		155	160
Ser Cys Cys Gln Ala Cys Lys Asp Glu Ala Ser Glu Gln Ser Asp Glu	165		170		175	
Glu Asp Ser Val Gln Ser Leu His Gly Val Arg His Pro Gln Asp Pro	180		185		190	
Cys Ser Ser Asp Ala Gly Arg Lys Arg Gly Pro Gly Thr Pro Ala Pro	195		200		205	
Thr Gly Leu Ser Ala Pro Leu Ser Phe Ile Pro Arg His Phe Arg Pro	210		215		220	
Lys Gly Ala Gly Ser Thr Thr Val Lys Ile Val Leu Lys Glu Lys His	225		230		235	240
Lys Lys Ala Cys Val His Gly Gly Lys Thr Tyr Ser His Gly Glu Val	245		250		255	
Trp His Pro Ala Phe Arg Ala Phe Gly Pro Leu Pro Cys Ile Leu Cys	260		265		270	
Thr Cys Glu Asp Gly Arg Gln Asp Cys Gln Arg Val Thr Cys Pro Thr	275		280		285	
Glu Tyr Pro Cys Arg His Pro Glu Lys Val Ala Gly Lys Cys Cys Lys	290		295		300	
Ile Cys Pro Glu Asp Lys Ala Asp Pro Gly His Ser Glu Ile Ser Ser	305		310		315	320
Thr Arg Cys Pro Lys Ala Pro Gly Arg Val Leu Val His Thr Ser Val	325		330		335	
Ser Pro Ser Pro Asp Asn Leu Arg Arg Phe Ala Leu Glu His Glu Ala	340		345		350	
Ser Asp Leu Val Glu Ile Tyr Leu Trp Lys Leu Val Lys Asp Glu Glu	355		360		365	
Thr Glu Ala Gln Arg Gly Glu Val Pro Gly Pro Arg Pro His Ser Gln	370		375		380	
Asn Leu Pro Leu Asp Ser Asp Gln Glu Ser Gln Glu Ala Arg Leu Pro	385		390		395	400

Glu Arg Gly Thr Ala Leu Pro Thr Ala Arg Trp Pro Pro Arg Arg Ser
 405 410 415
 Leu Glu Arg Leu Pro Ser Pro Asp Pro Gly Ala Glu Gly His Gly Gln
 420 425 430
 Ser Arg Gln Ser Asp Gln Asp Ile Thr Lys Thr
 435 440

 <210> 20
 <211> 378
 <212> PRT
 <213> Homo sapiens

 <400> 20
 Asp Arg Val Phe Gly Leu Glu Pro Pro Gly Thr Asn Met Ala Leu Val
 1 5 10 15
 Gly Leu Pro Gly Pro Asp Met Phe Cys Leu Phe His Gly Lys Arg Tyr
 20 25 30
 Ser Pro Gly Glu Ser Trp His Pro Tyr Leu Glu Pro Gln Gly Leu Met
 35 40 45
 Tyr Cys Leu Arg Cys Thr Cys Ser Glu Gly Ala His Val Ser Cys Tyr
 50 55 60
 Arg Leu His Cys Pro Pro Val His Cys Pro Gln Pro Val Thr Glu Pro
 65 70 75 80
 Gln Gln Cys Cys Pro Lys Cys Val Glu Pro His Thr Pro Ser Gly Leu
 85 90 95
 Arg Ala Pro Pro Lys Ser Cys Gln His Asn Gly Thr Met Tyr Gln His
 100 105 110
 Gly Glu Ile Phe Ser Ala His Glu Leu Phe Pro Ser Arg Leu Pro Asn
 115 120 125
 Gln Cys Val Leu Cys Ser Cys Thr Glu Gly Gln Ile Tyr Cys Gly Leu
 130 135 140
 Thr Thr Cys Pro Glu Pro Gly Cys Pro Ala Pro Leu Pro Leu Pro Asp
 145 150 155 160
 Ser Cys Cys Gln Ala Cys Lys Asp Glu Ala Ser Glu Gln Ser Asp Glu
 165 170 175
 Glu Asp Ser Val Gln Ser Leu His Gly Val Arg His Pro Gln Asp Pro
 180 185 190
 Cys Ser Ser Asp Ala Gly Arg Lys Arg Gly Pro Gly Thr Pro Ala Pro
 195 200 205
 Thr Gly Leu Ser Ala Pro Leu Ser Phe Ile Pro Arg His Phe Arg Pro
 210 215 220
 Lys Gly Ala Gly Ser Thr Thr Val Lys Ile Val Leu Lys Glu Lys His
 225 230 235 240

Lys Lys Glu Asp Lys Ala Asp Pro Gly His Ser Glu Ile Ser Ser Thr
 245 250 255
 Arg Cys Pro Lys Ala Pro Gly Arg Val Leu Val His Thr Ser Val Ser
 260 265 270
 Pro Ser Pro Asp Asn Leu Arg Arg Phe Ala Leu Glu His Glu Ala Ser
 275 280 285
 Asp Leu Val Glu Ile Tyr Leu Trp Lys Leu Val Lys Asp Glu Glu Thr
 290 295 300
 Glu Ala Gln Arg Gly Glu Val Pro Gly Pro Arg Pro His Ser Gln Asn
 305 310 315 320
 Leu Pro Leu Asp Ser Asp Gln Glu Ser Gln Glu Ala Arg Leu Pro Glu
 325 330 335
 Arg Gly Thr Ala Leu Pro Thr Ala Arg Trp Pro Pro Arg Arg Ser Leu
 340 345 350
 Glu Arg Leu Pro Ser Pro Asp Pro Gly Ala Glu Gly His Gly Gln Ser
 355 360 365
 Arg Gln Ser Asp Gln Asp Ile Thr Lys Thr
 370 375

<210> 21
 <211> 356
 <212> PRT
 <213> Homo sapiens

<400> 21
 Asp Arg Val Phe Gly Leu Glu Pro Pro Gly Thr Asn Met Ala Leu Val
 1 5 10 15
 Gly Leu Pro Gly Pro Asp Met Phe Cys Leu Phe His Gly Lys Arg Tyr
 20 25 30
 Ser Pro Gly Glu Ser Trp His Pro Tyr Leu Glu Pro Gln Gly Leu Met
 35 40 45
 Tyr Cys Leu Arg Cys Thr Cys Ser Glu Gly Ala His Val Ser Cys Tyr
 50 55 60
 Arg Leu His Cys Pro Pro Val His Cys Pro Gln Pro Val Thr Glu Pro
 65 70 75 80
 Gln Gln Cys Cys Pro Lys Cys Val Glu Pro His Thr Pro Ser Gly Leu
 85 90 95
 Arg Ala Pro Pro Lys Ser Cys Gln His Asn Gly Thr Met Tyr Gln His
 100 105 110
 Gly Glu Ile Phe Ser Ala His Glu Leu Phe Pro Ser Arg Leu Pro Asn
 115 120 125
 Gln Cys Val Leu Cys Ser Cys Thr Glu Gly Gln Ile Tyr Cys Gly Leu
 130 135 140

Thr Thr Cys Pro Glu Pro Gly Cys Pro Ala Pro Leu Pro Leu Pro Asp
 145 150 155 160
 Ser Cys Cys Gln Ala Cys Lys Asp Glu Ala Ser Glu Gln Ser Asp Glu
 165 170 175
 Glu Asp Ser Val Gln Ser Leu His Gly Val Arg His Pro Gln Asp Pro
 180 185 190
 Cys Ser Ser Asp Ala Gly Arg Lys Arg Gly Pro Gly Thr Pro Ala Pro
 195 200 205
 Thr Gly Leu Ser Ala Pro Leu Ser Phe Ile Pro Arg His Phe Arg Pro
 210 215 220
 Lys Gly Ala Gly Ser Thr Thr Val Lys Ile Val Leu Lys Glu Lys His
 225 230 235 240
 Lys Lys Glu Asp Lys Ala Asp Pro Gly His Ser Glu Ile Ser Ser Thr
 245 250 255
 Arg Cys Pro Lys Ala Pro Gly Arg Val Leu Val His Thr Ser Val Ser
 260 265 270
 Pro Ser Pro Asp Asn Leu Arg Arg Phe Ala Leu Glu His Glu Ala Ser
 275 280 285
 Asp Leu Val Glu Ile Tyr Leu Trp Lys Leu Val Lys Gly Ile Phe His
 290 295 300
 Leu Thr Gln Ile Lys Lys Val Arg Lys Gln Asp Phe Gln Lys Glu Ala
 305 310 315 320
 Gln His Phe Arg Leu Leu Ala Gly Pro His Glu Gly His Trp Asn Val
 325 330 335
 Phe Leu Ala Gln Thr Leu Glu Leu Lys Val Thr Ala Ser Pro Asp Lys
 340 345 350
 Val Thr Lys Thr
 355

<210> 22
 <211> 397
 <212> PRT
 <213> Mouse

<400> 22
 Phe Leu Tyr Ser Ser His Thr Ala Leu Pro Thr His Thr Ser Pro Lys
 1 5 10 15
 Val Xaa Glu Ser Pro Gly Gly Trp Leu Ala Lys Ser Leu Ser Val Xaa
 20 25 30
 Leu Leu Ile Ser Leu Arg Ile Ser Thr Ser Pro Thr Arg Phe Cys Val
 35 40 45
 Glu Pro Val Leu Ser Val Cys Leu Ser Val Cys Leu Ser Val Cys Leu
 50 55 60

Ser Ala Cys Leu Ser Leu Ser Val Ser Val Cys Leu Cys Leu Ser Val
 65 70 75 80
 Cys Leu Cys Leu Ser Leu Ser Leu Cys Leu Ser Leu Cys Leu Cys Leu
 85 90 95
 Cys Leu Cys Leu Ser Leu Ser Leu Arg Ser Pro Leu Ala Phe Ser Ser
 100 105 110
 Arg Arg Leu Met Gln Pro Gly Trp Cys Ser Gln Leu Trp Pro Ile Pro
 115 120 125
 Gln Thr Ala Pro His Pro Ala Cys Cys Ser Gln Arg His Ser Gln Asp
 130 135 140
 Pro Cys Ser Glu Arg Arg Gly Pro Ser Thr Pro Ala Pro Thr Ser Leu
 145 150 155 160
 Ser Ser Pro Leu Gly Phe Ile Xaa Arg His Phe Gln Ser Val Gly Met
 165 170 175
 Gly Ser Thr Thr Ile Lys Ile Ile Leu Lys Glu Lys His Lys Lys Ala
 180 185 190
 Cys Thr His Asn Gly Lys Thr Tyr Ser His Gly Glu Val Trp His Pro
 195 200 205
 Thr Val Leu Ser Phe Gly Pro Met Pro Cys Ile Leu Cys Thr Cys Ile
 210 215 220
 Asp Gly Tyr Gln Asp Cys His Arg Val Thr Cys Pro Thr Gln Tyr Pro
 225 230 235 240
 Cys Ser Gln Pro Lys Lys Val Ala Gly Lys Cys Cys Lys Ile Cys Pro
 245 250 255
 Glu Asp Glu Ala Glu Asp Asp His Ser Glu Val Ile Ser Thr Arg Cys
 260 265 270
 Pro Lys Val Pro Gly Gln Phe Gln Val Tyr Thr Leu Ala Ser Pro Ser
 275 280 285
 Pro Asp Ser Leu His Arg Phe Val Leu Glu His Glu Ala Ser Asp Gln
 290 295 300
 Val Glu Met Tyr Ile Trp Lys Leu Val Lys Gly Ile Tyr His Leu Val
 305 310 315 320
 Gln Ile Lys Arg Val Arg Lys Gln Asp Phe Gln Lys Glu Val Gln Asn
 325 330 335
 Phe Arg Leu Leu Thr Gly Thr His Glu Gly Tyr Trp Thr Val Phe Leu
 340 345 350
 Ala Gln Ile Pro Glu Leu Lys Val Thr Ala Ser Pro Asp Lys Val Thr
 355 360 365
 Lys Thr Leu Gln Gly Pro Lys Glu Leu Gln Ile Arg Val Leu Leu Val
 370 375 380

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Leu Leu Leu Tyr Ile Asn Lys Glu Val Ala Leu Pro Phe
385 390 395